Identifier: Revision: Effective Date:

DI-4.11

0

04/17/02

ER Document Catalog Number: **ER2002-0109**

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A Department of Energy Environmental Cleanup Program

Environmental Restoration Project Desk Instruction

For:

Completing the SMO Analytical Order and Field Paperwork Request



Los Alamos, New Mexico 87545

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Revision Log

Revision No.	Effective Date	Prepared By	Description of Changes	Affected Pages
R0	04/17/02	Felicia M. Aguilar	New Desk Instruction	All

Completing the SMO Analytical Order and Field Paperwork Request

Table of Contents

1.0	PURPOSE	5
2.0	SCOPE	5
3.0	TRAINING	5
4.0	DEFINITIONS	5
5.0	RESPONSIBLE PERSONNEL	6
6.0	PROCEDURE	6
7.0	LESSONS LEARNED	11
8.0	RECORDS	11
9.0	REFERENCES	12
10.0	ATTACHMENTS	12

Acronyms and Abbreviations

A3 Analysis and Assessment Focus Area

DI Desk Instruction

ER Environmental Restoration

ID Identification

LANL Los Alamos National Laboratory

PRS Potential Release Site

QC Quality Control

QP Quality Procedure

QPPL Quality Program Project Leader

SMO Sample Management Office

Completing the SMO Analytical Order and Field Paperwork Request

1.0 PURPOSE

This desk instruction (DI) states the responsibilities and describes the process for completing the Sample Management Office (SMO) analytical order and field paperwork request spreadsheet on the Los Alamos National Laboratory (LANL) Environmental Restoration (ER) Project.

This request

- documents your requirements for analytical analysis on your samples,
- notifies SMO personnel and your Analysis and Assessment (A3) Focus Area data steward of your requirements,
- ensures that the appropriate SMO personnel and your A3 data steward review your requirements so that they are matched to the appropriate laboratory,
- enables analytical laboratories to be notified that your samples will be arriving, and
- provides the information needed to generate your sampling paperwork.

2.0 SCOPE

This DI is a guidance document and all ER Project users of ER-SOP-01.04, Sample Control and Field Documentation, implement and execute this process at least two weeks before sampling events occur for the ER Project.

3.0 TRAINING

- 3.1 All users of this DI shall train according to ER-SOP-01.04.
- 3.2 The **supervisor** monitors the proper implementation of this DI and ensures that relevant team members complete all applicable training assignments indicated in ER-SOP-01.04, in accordance with LANL-ER-QP-2.2, Personnel Orientation and Training.

4.0 DEFINITIONS

Note: A glossary of definitions is located on the ER Project internal homepage http://erinternal.lanl.gov/WritingGuide.shtml.

- 4.1 <u>Analytical charge code</u> Charge code that the SMO uses for analytical work; it is not the field activity charge code. Contact your ER team leader for the appropriate charge code.
- 4.2 <u>As-collected values</u> Actual sample descriptors based on the sample collected in the field.
- 4.3 <u>Planned values</u> Field team leader's or ER team leader's best guess at the sample descriptors based on the sampling event planning document and knowledge of the site to be sampled
- 4.4 <u>Sampling event</u> Discrete sampling activity to be executed. A field campaign may be made up of multiple sampling events.

5.0 RESPONSIBLE PERSONNEL

The following personnel are responsible for activities identified in Section 6.0 of this procedure.

- 5.1 A3 data steward
- 5.2 ER team leader
- 5.3 Requester
- 5.4 SMO personnel

6.0 PROCEDURE

The SMO analytical order and field paperwork request is an Excel workbook made up of worksheets that require population before a requester can initiate an analytical and paperwork request. The requester, sampling event, and sample-specific information are required. See Attachment A, Completing the SMO Analytical Order/Field Paperwork Request, for a flowchart of this process; Attachment B, Worksheet 1, General Request Info, for requester and general sampling event requirements; and Attachment C, Worksheet 2, Sample-Specific Analytical Request Information, for sample-specific analytical requirements.

Note: ER Project personnel may print paper copies of this supplemental desk instruction from the controlled-document electronic file located at http://erinternal.lanl.gov/home_links/Library_proc.shtml. Contact the author if text is unclear.

6.1 Populate the Workbook

The **requester** shall perform all the following activities.

6.1.1 Under the "Service Request" dropdown menu of the ER Internal web page located http://erinternal.lanl.gov/ select "SMO Request."

- 6.1.2 The SMO Order Analytical Order and Field Paperwork spreadsheet opens automatically; save the excel file to your harddrive.
- 6.1.3 Review the sampling event planning document that defines the sampling event that you will execute.

Note: If the specific information needed to complete an SMO analytical order and field paperwork request is not included in the planning document, coordinate with your ER team leader to assemble the required information.

6.1.4 Complete Worksheet 1, General Request Info (Attachment B).

Note: All information is required; it is used to prepopulate the "planned" values in the sampling paperwork, which may be updated during sample collection to reflect "as-collected" values.

- 6.1.4.1 Required Requester Information is specific to the person requesting the sampling paperwork:
 - Date: date the request is being submitted.
 - Name: person requesting sampling paperwork.
 - E-mail: email address of person requesting sampling paperwork.
 - Phone #: phone number of person requesting sampling paperwork.
 - Z#: Z-number of person requesting sampling paperwork.
- 6.1.4.2 Required Sample Event Information is specific to the sampling event:
 - Event Description: Identify the sampling event; include PRS and time period information (e.g., 1Qtr FY02, PRSs, wells, canyon, and technical area).
 - Planning Document: List the title and LAUR number of the planning document for the sampling event.
 - Focus Area: Use the pull down list to choose the focus area and focus area leader responsible for the sampling event.
 - Analysis Charge Code: Fill in the appropriate charge code for the analytical work for this sampling event; your ER team leader can provide the code.
 - ER Team Leader: Use the pull down list to choose the ER team leader responsible for the sampling event.

- Planned Field Start Date: Fill in the planned start date of the sampling event in the mm/dd/yy format.
- Planned Field End Date: Fill in the planned end date of the sampling event in the mm/dd/yy format.
- Field Subcontractor: Use the pull down list to choose the subcontractor executing the sampling event.
- Field Team Leader: Use the pull down list to choose the subcontractor field team leader responsible for the sampling event.
- 6.1.5 Complete Worksheet 2, Analytical Request Info (Attachment C), with sample-specific analytical request information required to submit your samples to the analytical laboratory.
 - 6.1.5.1 Complete all applicable analytics columns; contact your A3 data steward or the SMO with questions.
 - **Note**: This information will be used to prepopulate the "planned" values in the sampling paperwork, which may be updated during sample collection to reflect "as-collected" values.
 - 6.1.5.2 Sample Information Planned Values are required and (sample-specific information for this sampling event) are based on the sampling event planning document and knowledge of the planned-sample site.
 - **Note:** Each row in the spreadsheet represents a distinct combination of sample descriptors and analytical requirements. If multiple locations and samples have the same sample descriptors and analytical requirements, only one row in the spreadsheet needs to be completed.
 - PRS and Well/Canyon: Enter the PRS, and the well or canyon that will be sampled.
 - No. of New Location IDs Needed: Enter the previously assigned location ids for locations you plan to return to, or request a new location ID by indicating the number of new location IDs needed.
 - No. of Sample IDs Needed: Indicate the number of new samples needed at each location. Unique sample identification numbers are assigned when the paperwork is generated.
 - Top Depth: Enter the planned beginning depth of the interval to be sampled.

- Bottom Depth: Enter the planned end depth of the interval to be sampled.
- Depth Unit (ft, in, cm): Enter the depth unit of measurement for your sample interval.
- Location Type: From the Location_Type look-up table, choose the appropriate location type (based on the sampling event planning document and site knowledge) for the location to be sampled. Worksheet 3, Field Code Values To Print (Attachment 4), has all look-up tables associated with the worksheet and can be printed for reference in completing this request and can be used in the field to complete the sample collection logs.
- Field Matrix: From the Field_Matrix look-up table, choose the appropriate field matrix (based on the sampling event planning document and site knowledge) for the sample to be collected.
- Eval Class: From the Eval_Class look-up table, choose the appropriate evaluation class, formerly referred to as "media code" (based on the sampling event planning document and site knowledge), for the sample to be collected.
- Sample Tech Code: From the Sample_Tech_Code lookup table, choose the appropriate sampling technique code (based on the sampling event planning document and site knowledge) for the sample to be collected.
- Field Prep: From the Field_Prep look-up table, choose the appropriate field preparation method to be applied, in the field, on the sample to be collected.
- Field QC Type: From the Field_QC_Type look-up table, choose the appropriate field quality control (QC) type sample (based on the sampling event planning document and site knowledge) for the sample to be collected.
- 6.1.5.3 The Routine Analytics section of the worksheet lists the routine analytical suites that you may need for your samples. In the General Chemistry column fill in methods/analytes from Worksheet 4, Analytical Methods & Analytes, for requests other than the standard suites shown under the "Organics," "Inorganics," or "Radionuclides" headings. Put any additional requirements or instructions in the Requests/Instructions column.

- **Note:** Worksheet 4, Analytical Methods & Analytes (Attachment E), lists routine analytics by suite type, suite, order code, test methods, preservatives, and detection limits.
- 6.1.5.4 Put an "X" in the In the Organics, Inorganics, and Radiochemistry columns for the standard suites that you are requesting.
 - To modify one of the standard suite's standard analyte lists, put an "X" in the Modify column and provide any additional requirements or instructions in the Requests/Instructions column.
 - To request a suite or analyte not shown, put an "X" in the Other column and provide any additional requirements or instructions in the Requests/Instructions column.
- 6.1.5.5 To request specialty analyses, put an "X" in the Special Analytics column and provide any additional requirements or instructions in the Requests/Instructions column.
- **Note:** Specialty analyses are analytes or suites that are not listed on Worksheet 4, Analytical Methods & Analytes. Therefore no laboratory currently is under contract to provide the analysis; special arrangements will need to be made.
- 6.1.5.6 In the Requests/Instructions column, list any additional requirements, instructions, or information that will help the SMO order your analyses.
- 6.2 Save the Excel File

The **requester** saves the Excel file, with a new name, and emails it to SMOOrderRequest@lanl.gov; receipt of this file triggers the following steps:

- 6.2.1 The **A3 data steward** starts the process of setting up a new sampling event in the information management system and generating your draft sampling paperwork.
- 6.2.2 **SMO personnel** start the process of generating ordering requests for the analytical laboratories.
- **Note**: If any questions arise, the A3 data steward or SMO personnel will contact you.
- 6.2.3 The **A3 data steward** generates the draft sampling paperwork, which is provided to the requester for review and approval; the requester is asked to pick up the draft paperwork from either the A3 data steward or the SMO.

Note: This is the requester's opportunity to request changes to the sampling event.

6.2.3.1 If no changes are necessary, circle "No" on on the sampling paperwork approval form (Attachment F) and sign in the space provided.

Note: The signature documents concurrence with the draft paperwork and the request for final printed paperwork based on the draft paperwork.

6.2.3.2 If changes are necessary, circle "Yes" and summarize the changes necessary in the space provided and return the sampling paperwork approval form and the draft paperwork to your A3 data steward.

Note: Final sampling paperwork is not generated until the signature is acquired on the sampling paperwork approval form.

6.2.3.3 If changes are not requested but are deemed necessary after the final sampling paperwork is generated, this sampling event is canceled in the information management system, and a new event requires creation.

Note: This may require that a new SMO analytical order and field paperwork request spreadsheet be submitted; it is determined on a case by case basis.

- 6.2.3.4 **SMO personnel** generate the final sampling paperwork and pull the appropriate sampling containers.
- 6.2.4 The **requester** picks up the sampling event paperwork and containers at the SMO.

7.0 LESSONS LEARNED

During the performance of work, **ER Project personnel** shall identify, document, and submit lessons learned, as appropriate in accordance with LANL-ER-QP-3.2, Lessons Learned, located at

http://erinternal.lanl.gov/home_links/Library_proc.shtml.

8.0 RECORDS

This desk instruction generates no records.

9.0 REFERENCES

ER Project personnel should read the following documents located at http://erinternal.lanl.gov/home_links/Library_proc.shtml to properly implement this DI.

- ER Project Quality Management Plan
- LANL-ER-SOP-1.04, Sample Control and Field Documentation
- LANL-ER-SOP-1.02, Sample Container and Preservation
- LANL-ER-SOP-1.05, Field Quality Control Samples
- LANL-ER-QP-3.02, Lessons Learned
- The work plan, sampling and analysis plan, voluntary corrective action plan, interim action plan, or other sampling event planning document that defines the sampling event that you will execute.

10.0 ATTACHMENTS

Attachment A: Completing the SMO Analytical Order and Field Paperwork Request Process Flow Diagram (1 page)

Attachment B: Worksheet 1, General Request Info (1 page)

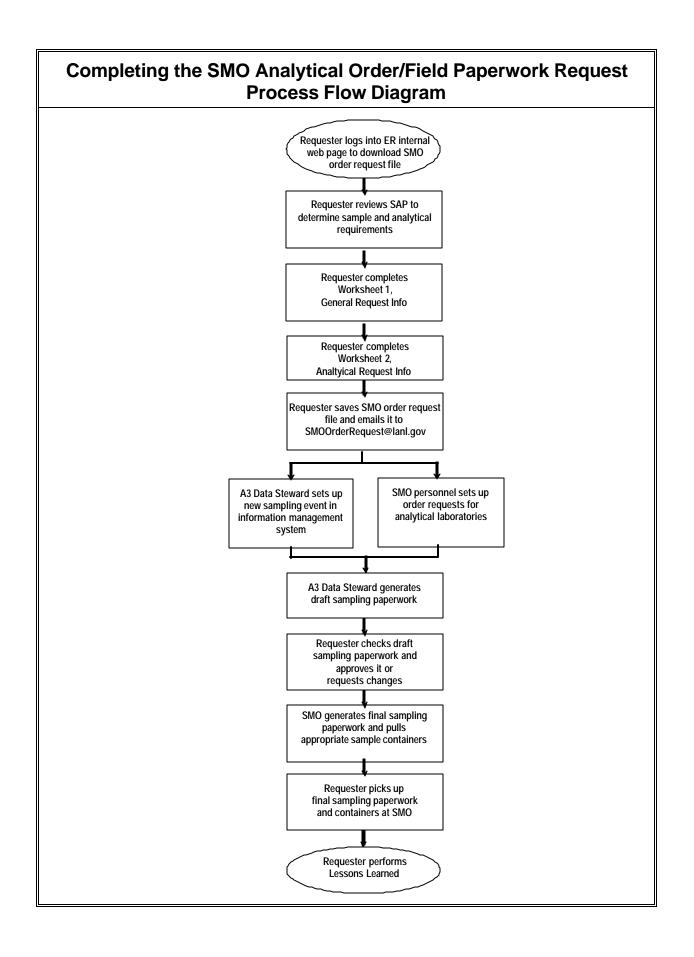
Attachment C: Worksheet 2, Analytical Request Info (3 pages)

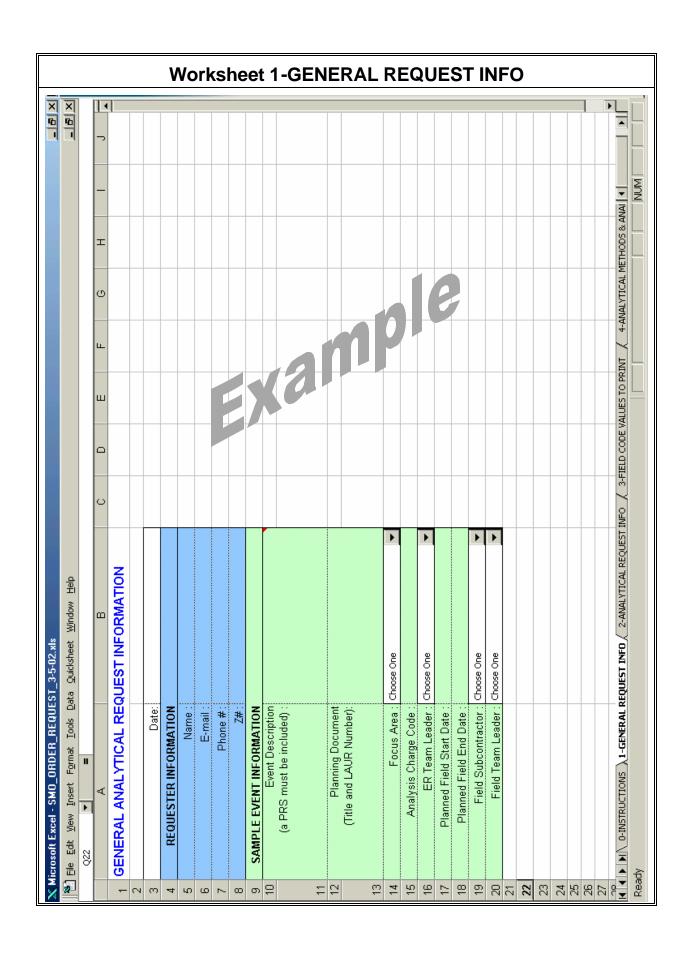
Attachment D: Worksheet 3, Field Code Values to Print (1 page)

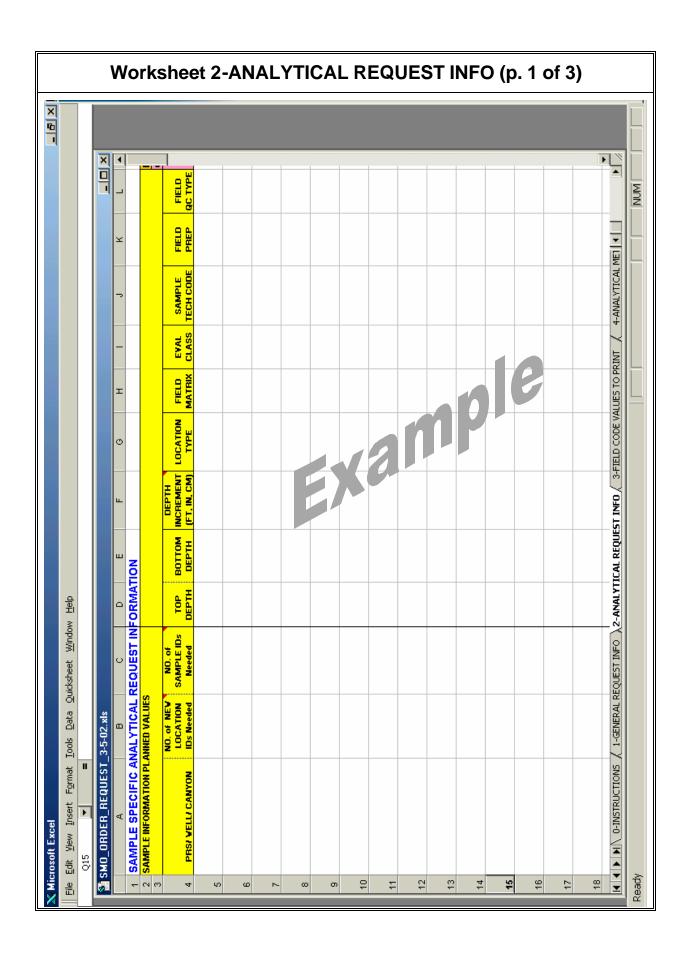
Attachment E: Worksheet 4, Analytical Methods & Analytes (1 page)

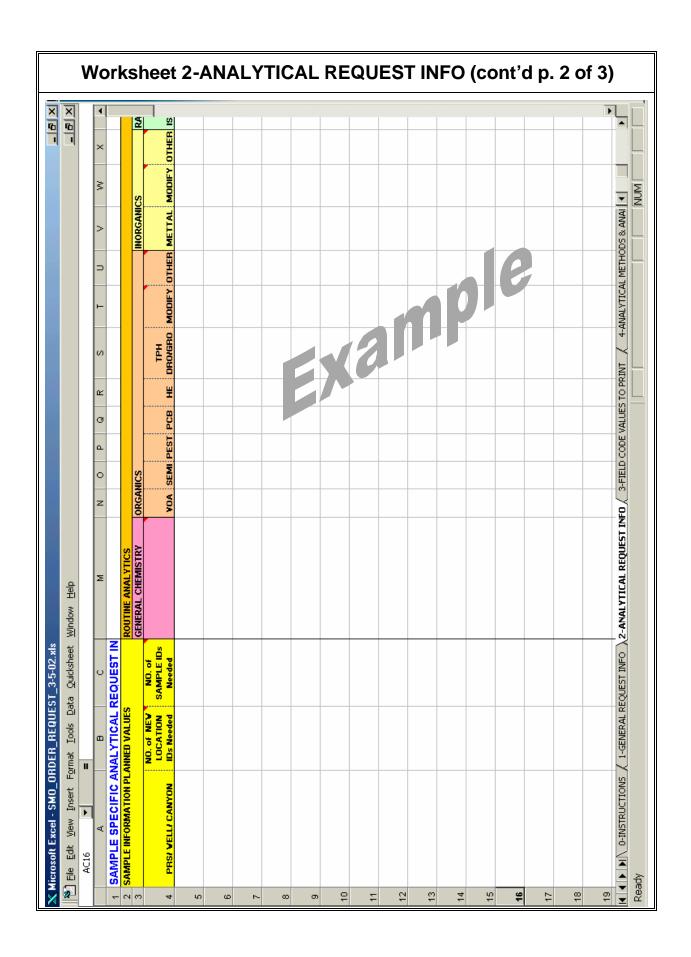
Attachment F: Sampling Paperwork Approval Form (1 page) located at

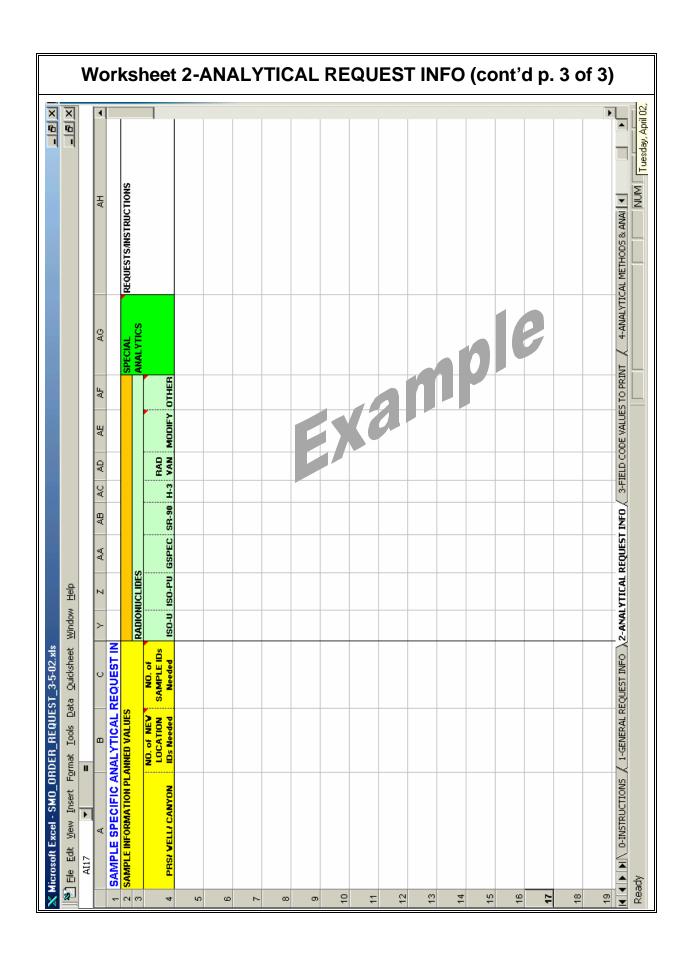
http://erinternal.lanl.gov/Quality/user/forms.asp

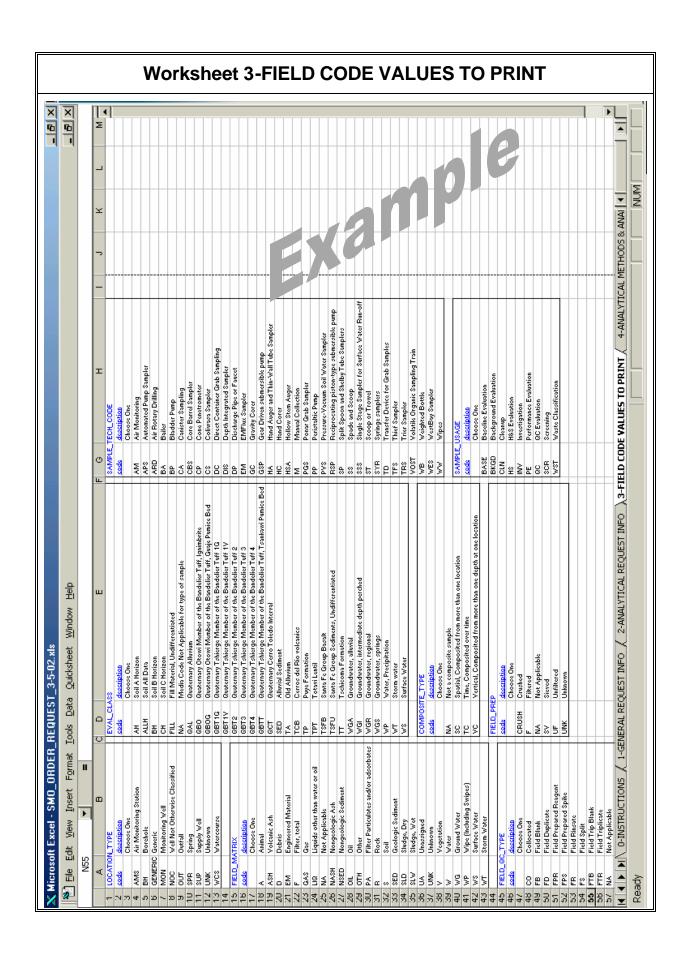


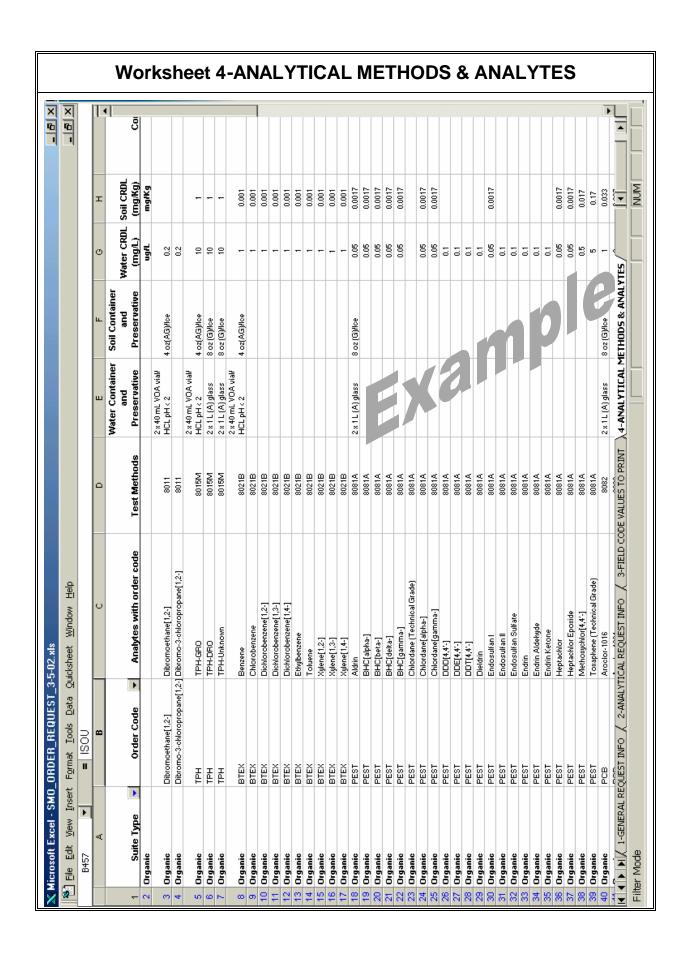












Sampli	ng Paperwork Approval Form Page 1 of			
This form documents the approval o	f the sampling paperwork generated from the following request:			
Date:				
REQUESTER INFORMATION				
Name:				
E-mail:				
Phone #:				
Z#:				
SAMPLE EVENT INFORMATION				
Event Description:				
Focus Area:				
Analysis Charge Code:				
ER Team Leader:				
Planned Field Start Date:				
Planned Field End Date:				
Field Subcontractor:				
Field Team Leader:	4joli 3			
The SMO and A3 personnel received the ab				
orders generated, and 3) draft sampling page of pressed.				
Event Num				
Draft sampling paperwork w generated by '3 Γ Stewar g	WE Join			
	syoth line			
Dr ung orde enerat y	link Ho.			
Dr aperw videu to the ser (listed re) seview on:	Tink from the form titile			
F ster, are any inges or additions to dread pling paperwork required (circle chee)?	Ollin, AES NO			
If the changes that are necessary and frease contact the A3 data steward that generated the draft san companies that generated the draft san companies that required corrections:				
lf not, please sign:				
A signature indicates approval of the draft sampling paperwork and results in the generation of the final sampling paperwork to match the reviewed, draft-sampling paperwork.				
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